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**MicroPatent® PatSearch FullText:** Record 1 of 1**Search scope:** US; EP; WO; JP**Years:** 1990-1999 **Text:** isoflavones or isoflavanoids **Assignee/Applicant:** Kikkoman

[no drawing available]

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**Abstract:** PURPOSE: To provide a bathing agent containing a liquid produced by steeping whole soybean, skinned soybean or defatted soybean with water, giving moist and smooth skin after bathing, increasing the warmth-keeping effect, giving refreshing feeling after bathing and effective for preventing the dry skin and itchiness.

**CONSTITUTION:** This bathing agent is prepared by immersing whole soybean, skinned soybean or defatted soybean in water of 5-100°C for 5min to 20hr, removing the soybean and using the steeped liquid or its concentrate as an essential component. Preferably, the water extract contains 0.1-50g/100ml of the soluble sugar of soybean in terms of glucose and contains proteins, amino acids, oligosaccharides, saponins, isoflavones, (^) vitamins, minerals and organic acids originated from soybean. It is produced preferably by grinding whole soybean, skinned soybean or defatted soybean together with water, heating the ground slurry, filtering the heated product, filtering the produced soya milk with an ultrafiltration membrane and using the filtrate or its concentrated liquid as an essential component.

**Int'l Class:** A61K00750; A61K00700**MicroPatent Reference Number:** 000037224**COPYRIGHT:** (C) 1995JPO

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AZ- 012662832 |

AA- 99-468937 |

DW- <BASIC> 199939 |

XC- <XRAM> C99-137528 |

TI- Use of isoflavone compounds or an extract of soy or clover for application to the skin or oral use to protect skin from UV induced immunosuppression or skin damage |

PA- NOVOGEN RES PTY LTD\_(NOVO-N) |

NC- 084 |

NP- 002 |

AB- <PN> WO 9936050\_A1 |

NV- NOVELTY Use of isoflavone compounds or an extract of soy or clover for application to the skin or oral use to protect skin from UV induced immunosuppression or skin damage is new. |

AB- <BASIC> DETAILED DESCRIPTION A novel composition for application to the skin following UV exposure or for oral administration prior to or following UV exposure comprises a compound of formula (I):  $\text{^Z=H}$ ;  $\text{^R1=H}$ , or RACO where RA=1-10C alkyl or an amino acid;  $\text{^R2=H}$ , OH, or ORB where RB is an amino acid or CORA;  $\text{^W=H}$ ;  $\text{^A=H}$  or OH; and B is selected from:  $\text{^or W=H}$  and A and B taken together form a 6 membered ring selected from:  $\text{^or W}$ , A and B taken with the groups with which they are associated comprise:  $\text{^or W}$  and A taken together with the groups with which they are associated comprise:  $\text{^and B is: ^R3=H}$ , CORA, CO2RC where RC=1-10C alkyl, or CORB;  $\text{^R4=H}$ , CORD where RD=H, OH, 1-10C alkyl or an amino acid, CO2RC, CORE where RE=H, 1-10C alkyl or an amino acid, COOH, CORC, or CONHRE;  $\text{^R5=H}$ , CO2RC; or CORCORE;  $\text{^R6=H}$  or hydroxy 1-10C alkyl;  $\text{^X}$  is preferably O, but may be N or S;  $\text{^and Y is: ^where R7=H}$  or 1-10C alkyl, in association with a carrier.  $\text{^INDEPENDENT CLAIMS}$  are also included for:  $\text{^}(1)$  a method for protecting skin from UV induced immunosuppression and UV induced skin damage which comprises applying to the skin of a subject after UV exposure, or orally administering either before and/or after UV exposure, a composition which comprises a compound of formula (I) or an extract of soy or clover, in association with a carrier;  $\text{^}(2)$  a composition for application to the skin following UV exposure, which comprises an extract of soy or clover in association with a carrier.  $\text{^USE_(I)}$  can be used for the manufacture of a medicament for the treatment, amelioration, prophylaxis and/or prevention of UV induced immunosuppression in the skin, and UV induced skin disorders (claimed). UV induced skin damage includes erythema (reddening and swelling of the skin (sunburn)), photoaging of skin such as hyperkeratinization and elastosis and skin lesions such as precancerous and cancerous lesions, e.g. actinic keratoses and pre-malignant and malignant skin cancers.  $\text{^ADVANTAGE}$  Improved effectiveness in protecting the skin from sun damage. Also the claimed product can be directly applied to the skin or used orally.  $\text{^pp}$ ; 34 DwgNo 0/0 |

DE- <TITLE TERMS>

COMPOUND\_EXTRACT\_SOY\_CLOVER\_APPLY\_SKIN\_ORAL\_PROTECT\_SKIN\_ULTRAVIOLET\_IN  
DUCE\_IMMUNOSUPPRESSIVE\_SKIN\_DAMAGE |

DC- B02^B05^D21^D22^E13^E14 |

IC- <MAIN> A61K-007/48 |

IC- <OTHER> A61K-031/12^A61K-031/35^A61K-031/40^A61K-031/475 |